



Stormwater Management Program Plan

March 2017



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Introduction:

This document has been prepared to meet the City of Des Moines' Western Washington Phase II Municipal Stormwater Permit requirement for written documentation of the City's Stormwater Management Program (SWMP).

The City's SWMP is intended to reduce the discharge of pollutants from the City's Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable (MEP), meet Washington State, All Known, Available and Reasonable methods of Treatment (AKART) requirements, and protect water quality. This goal will be accomplished by the inclusion of all permit SWMP components and implementation schedules into the City's existing SWMP.

Where the City is already implementing components called for in this permit, the City will continue those actions or activities to the existing extent required, regardless of the schedule called for in this document.

The City will implement an ongoing program for the gathering, tracking, maintaining and using information to evaluate the SWMP development, implementation and permit compliance and to set priorities. This document will be updated annually for submittal with the City's Annual Report to Ecology.

Planned Actions for 2017**1: SWMP Management and Administration (Section S5.A)**

The City plans to fully comply with the management and administration requirements as described in Section S5.A of the Permit. These requirements include, but are not limited to:

- Develop and implement the SWMP
- Annually update the SWMP Plan
- Track costs or estimated costs for implementing the SWMP
- Track inspection, enforcement and public education activities
- Continue to implement existing programs

2: Public Education and Outreach (Section S5.C.1)

a. Education and Outreach Program (S5.C.1.a):

In 2017 the City plans to maintain the existing public education and outreach programs below:

- Distribution of educational materials through various forms of media including but not limited to the City's website (www.desmoineswa.gov), quarterly citywide newsletters, municipal code, televised council meetings, and handout materials. Educational

materials include information on septic system maintenance, oil leak inspection, preservation of plants and trees adjacent to streams, lakes and wetlands, pet control and waste disposal, pesticide reduction, lawn fertilizer reduction, car washing tips, general stormwater education, volunteer opportunities, household BMPs, business BMPs, hazardous waste disposal, and many other topics.

- In 2016 the City purchased 300 digital subscription codes from Chinook Book for public distribution. In 2017 City plans to continue this program and distribute the remaining codes through July 31st when the codes expire. Chinook book offers a host of local sustainable deals and coupons through a smart phone application. Multiple jurisdictions have also partnered with Chinook Book to create in app advertising, including BMP related coupons and online public education links.
- In 2017 the City of Des Moines is planning to again partner with the Environment Coalition of South Seattle (ECOSS) on the Puget Sound Spill Kit Program to provide eighteen selected businesses with free spill kits, training, and education on stormwater BMP's. By providing this service to the businesses the City will help build general awareness and encouraged behavior change. ECOSS will also be able to provide the City with measurable figures for behavior change as survey questions will be asked pre and post visit.
- The City is planning to continue its Car Wash Kit Program in 2017. Community car wash events are encouraged to use a "Car Wash Kit" available to check out from the City's Public Works Department free of charge.

In addition to the above public education and outreach activities, the City plans to pursue the following new activities in 2017 listed below:

- In 2017 the City plans to enhance the NPDES portion of its website to create a simpler more intuitive way for the public to find information. As well as to increase the amount of stormwater information found on the website.
- In 2017 the City plans to support and participate in the Highline Stormwater Festival. The Festival is aiming at hosting a 2 day stormwater education event for all 5th grade students in the Highline School District. The event is tentatively planned to take place in the Fall at the Des Moines Beach Park. The event is still in the planning stages.
- In 2017 the City will partner with King County Hazardous Waste Program to visit a number of businesses in the City that generate hazardous waste. Spill kits will be handed out as needed, information

about stormwater best management practices, and hazardous waste storage and disposal.

b. Stewardship (S5.C.1.b):

The volunteer storm drain marking program will continue in 2017 and act as the primary stewardship program in the City.

The City plans to support additional stewardship events including an annual clean-up events, farmer's market visits, and earth day events.

c. Measurement (S5.C.1.c):

In 2017 the City of Des Moines plans to use the continued partnership with ECOSSE to continue the measurement and adoption of targeted behaviors on a region wide scale.

3: Public Involvement and Participation (Section S5.C.2)

a. Opportunities for Public Participation (S5.C.2.a):

The City will continue to provide opportunities for public comment/input on the SWMP Plan. The SWMP Plan will be posted to the website for comments to be submitted.

b. Availability of Documents (S5.C.2.b):

In 2017, the annual report for this permit which is due every March 31st and the SWMP Plan will be posted on the City website (www.desmoineswa.gov) no later than May 31st.

4: Illicit Discharge Detection and Elimination (IDDE) (Section S5.C.3)

a. Development of MS4 Map (S5.C.3.a):

In 2017 the City will continue its ongoing GIS mapping of the MS4. The City has incorporated a new quality control process for map accuracy. The Stormwater crews who do catchbasin inspections will continue to highlight any differences between the map and the physical asset in the field.

b. IDDE Ordinance (S5.C.3.b):

Existing Codes will be maintained with no planned changes in 2017. The City adopted an IDDE Ordinance in compliance with the permit requirement, effective September 12, 2009. This ordinance was codified as Chapter 11.20 of the Des Moines Municipal Code.

c. Ongoing IDDE Program (S5.C.3.c):

In 2017 the City plans to maintain the existing IDDE programs below:

- IDDE Field Screening: The City has implemented a field screening methodology for illicit connections using *"Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments"*, Center for Watershed Protection, October 2004. This field screening methodology will be documented in the Annual Report. The City has developed a program to meet the field screening requirements, for at least 40% of the MS4 no later than December 31st, 2017, and on average 12% each year thereafter. The approach of dry weather field screening monitoring nodes will be used to complete the screening. Currently 31.68% of the 40% requirement has been met. At a minimum at the remaining 8.32% of the MS4 will be field screened in 2017 to meet the requirement.
- The City encourages citizens to call the Public Works Department at 206-870-6869; police department non-emergency number at 206-878-3301 to report illicit discharges and spills. These phone numbers are publicly listed on the City website and through various other means of outreach.
- The City's NPDES Coordinator is the lead for identification, investigation, termination, cleanup, and reporting illicit discharges, including spills, improper disposal and illicit connections. The City has provided training to staff that maintains surface water, streets, parks and recreation. Follow-up training will be provided as needed to address changes in procedures, techniques or requirements. IDDE training is currently accomplished through the EXCAL VISUAL training video "IDDE a grate concern". All training records (including course information and the staff trained) will be documented and maintained.

d. Ongoing IDD&E Action Program (S5.C.3.d):

In 2017, the City will maintain the ongoing IDDE Action Program. The City is currently using IDDE procedures from the *"Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments"* to characterize the nature and environmental threat posed by illicit discharges and also to trace the source of illicit discharges. Procedures for eliminating the source of discharges are currently being developed. When the City or the investigations agency determines surface water quality pollution has occurred, a notice is sent to the property owner stating the problem be remedied within a time frame listed in our code. The cleanup and enforcement depend on severity of the spill.

e. Training (S5.C.3.e):

The City will continue to implement IDDE training as needed in 2017. Follow-up training will be provided as needed to address changes in procedures,

techniques or requirements. All training records (including course information and the staff trained) will be documented and maintained.

f. Recordkeeping (S5.C.3.f):

The City will track and maintain records of the activities conducted to meet the requirements of this section. City staff will continue to evaluate and improve the IDDE program based on experience, lessons learned, and feedback from public education efforts.

5: Controlling Runoff from New Development, Redevelopment and Construction Sites (Section S5.C.4)

a. Ordinance (S5.C.4.a):

The City will maintain the existing program designed to reduce pollutants in stormwater runoff to the MS4 from new development, redevelopment and construction site activities. The City adopted the 2016 King County Surface Water Design Manual (KCSWDM) as the Surface Water Design Manual for the City of Des Moines: DMMC 16.10.350.

b. Permitting Process (S5.C.4.b):

The City will maintain the existing permitting process with plan review, inspection and enforcement capability to meet the standards listed in i. through iv. in the permit under section S5.C.4.b, for both private and public projects, using qualified personnel. Beginning in 2017 LID will be incorporated into the permitting and inspection processes.

c. Long-term Operation and Maintenance (S5.C.4.c):

The City will maintain the existing program to ensure inspection and maintenance of private facilities are being performed. In 2017 quality insurance spot checks will be done to ensure proper maintenance and inspection.

d. Availability of NOIs (S5.C.4.d):

The City's Community Development Department will continue to make available copies of the "Notice of Intent for Construction Activity" and copies of the "Notice of Intent for Industrial Activity" to representatives of proposed new development and redevelopment. The City enforces local ordinances controlling runoff from sites that are also covered by stormwater permits issued by Ecology.

e. Training (S5.C.4.e):

The existing training program per S5.C.4.e will be maintained. Inspection and maintenance for LID facilities will be added to the training schedule.

Trainings will be conducted in house and by other agencies, such as the Department of Ecology and the Washington Stormwater Center.

f. Low Impact Development (S5.C.4.f):

In 2017 Low Impact Development has been made effective in the City's local development-related codes. In 2017 the City Staff will initiate the process of amending the City's Transportation Standards Manual to incorporate LID. A new drainage review handout to be posted on the City of Des Moines website is being drafted to help explain the new LID requirements for design and plan submittal.

6: Municipal Operations and Maintenance (Section S5.C5)

a. Maintenance Standards (S5.C.5.a):

Existing maintenance standards will remain established in 2017. The City has adopted the 2016 King County Surface Water Design Manual for maintenance standards for all publicly owned facilities: DMMC 16.10.350 Surface water design manual. The 2016 Surface Water Design Manual now covers LID facilities.

b. General Inspections (S5.C.5.b):

The City plans to maintain its ongoing program for annual inspection and maintenance of municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities.

c. Post-Storm Inspections (S5.C.5.c):

No changes or additions will be made the post-storm inspection program in 2017.

d. Catch Basins and Inlet Inspections (S5.C.5.d):

The City plans to meet the deadline to inspect all batch basins and inlets owned by the City at least once no later than August 1st, 2017. City crews are inspecting with I-Pads in the field and scheduling required maintenance as they inspect.

e. Compliance (S5.C.5.e):

The City will continue to use Cityworks to track inspections associated with this section of the permit.

- f. Reduction of Stormwater Impacts (S5.C.5.f):
Existing policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the City will remain in 2017. The City will be revisiting these standards in this year to make sure everything is current and up to date.
- g. Training (S5.C.5.g):
Training under this section will continue on an as needed basis.
- h. Special Facility Requirements (S5.C.5.h):
The City's Planning, Building and Public Works Department developed and implemented a Stormwater Pollution Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the City. The SWPPP includes periodic visual observation of discharges from the facility to evaluate the effectiveness of the BMPs. The SWPPP is currently undergoing an update for the 2016 draft. A facility plan for the installation structural BMPs will be drafted in 2017 and placed in the SWPPP.
- j. Record Keeping (S5.C.5.i):
No changes to the existing record keeping program will be made.

7: Monitoring and Assessment (Section S8)

- a. Reporting:
The City will provide any monitoring or stormwater-related studies conducted by the City during the reporting period in the annual report.
- b. Status and Trends Monitoring:
The City shall pay \$7,152 into a collective fund to implement RSMP small streams and marine nearshore status and trends monitoring in Puget Sound. The payment into the collective fund is made annually to Ecology.
- c. Effectiveness Studies:
The City shall pay \$11,916 into a collective fund to implement RSMP effectiveness studies. The payment into the collective fund is made annually.
- d. Source Identification and Diagnostic Monitoring:
The City will pay into a collective fund to implement the RSMP Source Identification Information Repository (SIDIR). The payment into the collective fund in the amount of \$1,105 is made annually.

Section 8: Reporting Requirements

- a. No later than March 31st of 2017, the City will submit an annual report. The reporting period for the annual report will be from January 1, 2016 through December 31, 2016. The City will submit annual reports electronically using Ecology's WQWebDMR.
- b. The City will continue to keep all records related to the Permit and the SWMP for at least five years.
- c. The City will continue to make all records related to the Permit and the City's SWMP available to the public at reasonable times during business hours. The City will provide a copy of the most recent annual report to any individual or entity, upon request.
- d. The 2016 annual report for the City will include the following.
 - 1. A copy of the City's current SWMP Plan as required by S5A.2.
 - 2. Submittal of the annual report form as provided by Ecology pursuant to S9.A, describing the status of implementation of the requirements of the permit during the reporting period.
 - 3. Attachments to the annual report form including summaries, descriptions, reports, and other information as required, or as applicable, to meet the requirements of this permit during the reporting period. Refer to appendix 3 for annual report questions.
 - 4. If applicable, notice that the MS4 is relying on another governmental entity to satisfy any of the obligations under this permit.
 - 5. Certification and signature pursuant to G19D, and notification of any changes to authorization pursuant to G19.C.
 - 6. A notification of any annexations, incorporations or jurisdictional boundary changes resulting in an increase or decrease in the City's geographical area of permit coverage during the reporting period.